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INDEX TO AMERICAN BOTANICAL LITERATURE

(1909)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in its broadest sense.

Reviews, and papers which relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Anderson, J. R. Pure white *Calypso borealis*. Ottawa Nat. 22: 254. 6 F 1909.

Anderson, M. P. The cedar of Lebanon. Torrey 8: 287-292. 6 Ja 1909. [Illust.]

Arthur, J. C. North American rose-rusts. Torrey 9: 21-28. f. 1-3. 26 F 1909.

Includes *Phragmidium monteavagum* sp. nov. from the Rocky Mountain region.

Arthur, J. C., & others. Propositions relating to the amendment and completion of the International Rules of Botanical Nomenclature adopted by the International Botanical Congress of Vienna in 1905. Bull. Torrey Club 36: 55-63. 4 Mr 1909.

In English and French.

Bailey, W. W. A vegetable wonder. Am. Bot. 14: 106, 107. [Ja] 1909.

Beardslee, H. C. The amanitas of North Carolina. Jour. Elisha Mitchell Sci. Soc. 24: 115-124. 30 Ja 1909.

Beauverd, G. Eriocaulonacées du Brésil. Bull. Herb. Boiss. II. 8: 986-988. f. 1. 9 Ja 1909.

Includes *Eriocaulon Damazianum* and *E. giganteum* spp. nov. from Brazil.

Beauverd, G. Nouvelles espèces uruguayennes du genre *Nothoscordum* Kunth. Bull. Herb. Boiss. II. 8: 993-1007. f. 1-5. 5 Ja 1909.

Includes 9 new species.

Benedict, R. C. New hybrids in *Dryopteris*. Bull. Torrey Club 36: 41-49. 29 Ja 1909.

Includes *D. Clintoniana* × *spinulosa*, *D. cristata* × *Goldiana*, *D. Goldiana* × *spinulosa*, and *D. intermedia* × *marginalis* hybb. nov.

Benedict, R. C. Notes on ferns seen during the summer of 1908. Torrey 8: 284-286. 6 Ja 1909.

- Bessey, C. E.** The phyletic idea in taxonomy. *Science* II. **29**: 91-100. 15 Ja 1909.
- Bicknell, E. P.** The ferns and flowering plants of Nantucket — IV. *Bull. Torrey Club* **36**: 1-29. 29 Ja 1909.
- Blumer, J. C.** An Arizona mesa. *Plant World* **12**: 7-10. Ja 1909.
- Britton, E. G.** Notes on nomenclature — X. *Bryologist* **12**: 28, 29. 1909.
- Britton, N. L.** Studies of West Indian plants — II. *Bull. Torrey Club* **35**: 561-569. 2 Ja 1909.
Includes new species in *Harrisia*, a new genus of *Cactaceae*, (5) *Dorstenia*, and *Trichilia*.
- Buchheister, J. C.** Bumble-bee and closed gentian. *Am. Bot.* **14**: 108, 109. [Ja] 1909.
- Buchheister, J. C.** Changes in violet leaves. *Am. Bot.* **14**: 109, 110. [Ja] 1909.
- Buchheister, J. C.** Observations on *Nephrodium simulatum*. *Fern Bull.* **16**: 104, 105. [Ja] 1909.
- Burnham, S. H.** *Asplenium ebenoides* in New York. *Fern Bull.* **16**: 111-113. [Ja] 1909.
- Buzek, E.** *Chlorogalum pomeridanum*. *Am. Bot.* **14**: 103, 104. [Ja] 1909.
- Clements, F. E.** Darwin's influence upon plant geography and ecology. *Am. Nat.* **43**: 143-151. Mr 1909.
- Cleveland, G. T.** Ferns of the upper Susquehanna valley. *Fern Bull.* **16**: 101-103. [Ja] 1909.
- Clute, W. N.** A running fern. *Rhipidopteris peltatum*. *Fern Bull.* **17**: 16-28. [Mr] 1909.
- Clute, W. N.** Death of Alvah A. Eaton. *Fern Bull.* **16**: 109-111. [Ja] 1909.
- Clute, W. N.** Fifteen years of fern study. *Fern Bull.* **15**: 97-100. [Ja] 1909.
- Clute, W. N.** More additions to the check-list. *Fern Bull.* **17**: 20, 21. [Mr] 1909.
- Clute, W. N.** Rare forms of ferns — VIII. An abnormal cinnamon fern. *Fern Bull.* **16**: 107-109. [Ja] 1909. [Illust.]
- Clute, W. N.** Rare forms of ferns — IX. *Fern Bull.* **17**: 9-12. [Mr] 1909. [Illust.]
- Clute, W. N.** The evolution of a tuber. *Am. Bot.* **14**: 97-102. [Ja] 1909. [Illust.]
- Clute, W. N.** The grass-like Polypodium. *Polypodium gramineum*. *Fern Bull.* **16**: 99-101. [Ja] 1909. [Illust.]
- Cockerell, T. D. A.** Genera without species. *Science* II. **29**: 339, 340. 26 F 1909.

- Cogniaux, A.** Orchidées nouvelles de la Jamaïque, de l'Herbier "Krug et Urban," de Berlin. Repert. Nov. Spec. **6**: 304-306. 31 Ja 1909.
Includes 5 new species, in *Ponthieva*, *Liparis*, *Stelis*, *Pleurothallis*, and *Brachionidium*.
- Copeland, W. F.** Periodicity in *Spirogyra*. Bot. Gaz. **47**: 9-25. 29 Ja 1909.
- Cox, C. F.** Charles Darwin and the mutation theory. Am. Nat. **43**: 65-91. F 1909.
- Crocker, W.** Longevity in seeds. Bot. Gaz. **47**: 69-72. 29 Ja 1909.
- Cushman, J. A.** Some interesting Maine plants. Rhodora **11**: 12-14. 13 F 1909.
- Dammer, U.** *Octomeria Oppenheimii*. Orchis **1**: 9. 1 F 1909.
- Davidson, A.** New botanical records for Los Angeles. Bull. South. California Acad. Sci. **8**: 8. Ja 1909.
- Day, M. A.** Botanical writings of the late Alvah Augustus Eaton. Rhodora **10**: 211-214. 4 Ja 1909.
- Deane, W.** More teratological forms of *Trillium undulatum*. Rhodora **10**: 214-216. 4 Ja 1909.
- Detmers, F.** Annual report of the plants new to the Ohio state list for 1907-08. Ohio Nat. **9**: 421, 422. Ja 1909.
- Dorety, H. A.** The extra-fascicular cambium of *Ceratozamia*. Bot. Gaz. **47**: 150-152. pl. 7. 20 F 1909.
- Dorety, H. A.** Vascular anatomy of the seedling of *Microcycas calocoma*. Bot. Gaz. **47**: 139-147. pl. 5, 6. 20 F 1909.
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Includes 38 new genera.
- East, E. M.** The distinction between development and heredity in inbreeding. Am. Nat. **43**: 173-181. Mr 1909.
- Eichlam, F.** *Mamillaria chapinensis* Eichlam et Quehl. Monats. Kakteenk. **19**: 1-5. 15 Ja 1909.
- Eichlam, F.** *Peireskiopsis autumnalis* Eichlam n. sp. Monats. Kakteenk. **19**: 22-25. 15 F 1909.
Native in Guatemala.
- Fawcett, W., & Rendle, A. B.** Some new Jamaica orchids. Jour. Bot. **47**: 3-8. Ja 1909.
Pleurothallis hirsutula, *P. Morrisii*, *P. Helenae*, *P. trilobata*, *Lepanthes elliptica*, *L. brevipedata*, and *L. Harrisii*.
- Fernald, M. L.** The representatives of *Potentilla anserina* in eastern America. Rhodora **11**: 1-9. 13 F 1909.

- Ferriss, J. H.** The ferns of Cochise County, Arizona. *Fern Bull.* 17: 1-7. [Mr] 1909.
- Fink, B.** Licheno-ecologic studies from Beechwood Camp. *Bryologist* 12: 21-24. *pl.* 3 + *f.* 1, 2. 1909.
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- Forbes, F. F.** A new hybrid violet. *Rhodora* 11: 14, 15. 13 F 1909.
V. Brittoniana \times *lanceolata*.
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- Fries, R. E.** Einige weitere Bemerkungen über die Gattung *Scoparia*. *Bull. Herb. Boiss.* II. 8: 934-940. 5 Ja 1909.
- Gadow, H.** Altitude and distribution of plants in southern Mexico. *Jour. Linn. Soc. Bot.* 38: 429-440. 15 F 1909.
- Gager, C. S.** Radioactivity and life. *Torreya* 8: 277-284. 6 Ja 1909.
- Gager, C. S.** The influence of radium rays on a few life processes of plants. *Pop. Sci. Mo.* 74: 222-232. *f.* 2-13. Mr 1909.
- Gérôme, J.** *Eupatorium Purpusi* var. *monticola*. *Rev. Hort.* 81: 10-12. *f.* 1. 1 Ja 1909.
- Greene, E. L.** New composites from Oregon, Washington, and Idaho. *Leaflets* 2: 14-20. 6 F 1909.
New species in *Senecio* (4), and *Pyrrocoma* (13).
- Greene, E. L.** New plants from Arizona. *Leaflets* 2: 20-24. 6 F 1909.
New species in *Senecio* (5), *Gutierrezia*, *Pyrrocoma*, *Saracha*, *Lupinus*, *Cicuta*, and *Persicaria*.
- Greene, E. L.** New species of the genus *Mimulus*. *Leaflets* 2: 1-8. 6 F 1909.
Includes 16 new species from North and South America.
- Greene, E. L.** New western *Asteraceae*. *Leaflets* 2: 8-13. 6 F 1909.
Includes new species in *Aster* (2), *Erigeron* (2), and *Pyrrocoma* (11).
- Greene, F. C.** Notes on Indiana ferns. *Fern Bull.* 17: 12-15. [Mr] 1909.
- Griggs, R. F.** Juvenile kelps and the recapitulation theory—I. *Am. Nat.* 43: 5-30. *f.* 1-43. Ja 1909; 92-106. F 1909.
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- Harrington, W. H.** Reminiscences of Dr. Fletcher. Ottawa Nat. 22: 196-205. pl. 6. 12 Ja 1909.
- Heller, A. A.** "Aspects of the species question." Muhlenbergia 4: 89-100. 6 Ja 1909; 101-107. 27 Ja 1909.
- Heller, A. A.** The bitter root. Muhlenbergia 5: 14-16. 10 F 1909. [Illust.]
- Heller, A. A.** The nut pine. Muhlenbergia 5: 31-35. 27 F 1909. [Illust.]
- Hollick, A.** A new genus of fossil *Fagaceae* from Colorado. Torrey 9: 1-3. f. 1, 2. 26 Ja 1909.
Fagopsis, based on *Planera longifolia* Lesq.
- Howe, M. A.** Phycological studies—IV. The genus *Neomeris* and notes on other *Siphonales*. Bull. Torrey Club 36: 75-104. pl. 1-8. 4 Mr 1909.
Includes new species in *Neomeris*, *Acetabulum*, *Halimeda*, and *Udotea*.
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- Humphreys, E. W.** An analogy between the development of the plates of crinoids and the leaves of *Sassafras*. Bull. Torrey Club 35: 571-576. 2 Ja 1909. [Illust.]
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- Kennedy, P. B.** Studies in *Trifolium*. — I. Muhlenbergia 5: 1-13. 10 F 1909.
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- Leavitt, R. G.** A vegetative mutant and the principle of homoeosis in plants. Bot. Gaz. 47: 30-68. f. 1-19. 29 Ja 1909.
- Leavitt, R. G.** In memoriam: Alvah Augustus Eaton. Rhodora 10: 209-211. 4 Ja 1909.
- Linton, E.** An examination of Darwin's "Origin of Species" in the light of recent observations and experiments. Am. Nat. 43: 163-172. Mr 1909.

- Livingston, B. E.** Present problems of physiological plant ecology. *Plant World* **12**: 41-46. F 1909.
- Lorenz, A.** Notes on *Cephaloziella* (Spruce) Schiffner. *Bryologist* **12**: 25-27. 1909.
- Lowe, J. D.** Hepatics and lichens collected in Nova Scotia. *Bryologist* **12**: 38-40. 1909.
- Lunell, J.** The passing of the prairie plants in the grain-producing middle West. *Muhlenbergia* **4**: 109, 110. 27 Ja 1909.
- Lutz, A. M.** Notes on the first generation hybrid of *Oenothera lata* ♀ × *O. gigas* ♂. *Science* **11**: 263-267. 12 F 1909.
- Mackenzie, K. K.** Notes on *Sagittaria*. *Torreya* **9**: 30-32. 26 F 1909.
- Merrill, G. K.** Lichen notes no. 9. *Bryologist* **12**: 29-31. 1909.
- Murrill, W. A.** Illustrations of fungi — I. *Mycologia* **1**: 1-3. *pl.* 1. 27 F 1909.
Illustrating *Hypholoma perplexum*, *Armillaria mellea*, *Tricholoma equestre*, *Clitocybe multiceps*, and *Boletus scaber*.
- Murrill, W. A.** The *Boletaceae* of North America. — I. *Mycologia* **1**: 4-18. 27 F 1909.
Includes 4 new genera, *Boletinellus*, *Pulveroboletus*, *Boletellus*, and *Suilellus*.
- Olsson-Seffer, P.** Relation of soil and vegetation on sandy sea shores. *Bot. Gaz.* **47**: 85-126. *f.* 1-12. 20 F 1909.
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C. coloradense from Larimer County, Colorado.
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- Pittier, H.** New or noteworthy plants from Colombia and Central America. *Contr. U. S. Nat. Herb.* **12**: 171-181 + i-vii. *pl.* 18, 19 + *f.* 11-19. 22 Ja 1909.
Includes 9 new species in *Phyllonoma* (2), *Phyllanthus*, *Myginda*, *Hypocratea*, *Carpotroche* (3), and *Aegiphila*.
- Plitt, C. C.** Lichens of Baltimore and vicinity. *Bryologist* **12**: 33, 34. 1909.

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- Ramaley, F.** *Crataegus* in Colorado. Bot. Gaz. **47**: 72. 29 Ja 1909.
- Ramaley, F., & Dodds, G. S.** Two imperfectly known species of *Crataegus*. Bull. Torrey Club **35**: 581-583. 2 Ja 1909.
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- Rorer, J. B.** A bacterial disease of the peach. Mycologia **1**: 23-27. 27 F 1909.
- Rosenstock, E.** Filices novae a D^{re} O. Buchtien in Bolivia collectae — II. Repert. Nov. Spec. **6**: 308-316. 31 Ja 1909.
Includes new species in *Hymenophyllum*, *Pteris*, *Diplazium* (3), *Dryopteris*, *Gymnogramme*, and *Elaphoglossum* (2).
- Rusby, H. H.** The rubber plants of Mexico. Jour. N. Y. Bot. Gard. **10**: 4-9. Ja 1909.
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- Saunders, W.** Dr. Fletcher's work, its influence on Canadian agriculture. Ottawa Nat. **22**: 192-196. 12 Ja 1909.
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- Scoullar, A. E.** Fern notes. Fern Bull. **17**: 18-20. [Mr] 1909.
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- Seaver, F. J.** North Dakota slime-moulds. Bull. Torrey Club **35**: 577-580. 2 Ja 1909.
- Seaver, F. J.** Notes on North American *Hypocreales* — I. New and noteworthy species. Mycologia **1**: 19-22. pl. 2. 27 F 1909.
Includes *Hyponectria dakotensis* and *Nectria semenicola* spp. nov.
- Slosson, M.** Notes on some hybrid ferns. Fern Bull. **16**: 97-99. [Ja] 1909.
- Smith, W.** The anatomy of some sapotaceous seedlings. Trans. Linn. Soc. Bot. **7**: 189-200. pl. 25, 26. F 1909.
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- Standley, P. C.** Notes on the flora of the Pecos River National Forest. *Muhlenbergia* 5: 17-30. 27 F 1909.
Includes *Erigeron pecosensis* sp. nov.
- Stewart, F. C., & French, G. T.** The perennation of the clover dodder, *Cuscuta Epithimum* Murr. *Torreyia* 9: 28-30. 26 F 1909.
- Sumstine, D. R.** Mucor cultures. *Science* II. 29: 267. 12 F 1909.
- Thellung, A.** Neue *Lepidium*-Formen. *Bull. Herb. Boiss.* II. 8: 913, 914. 5 Ja 1909.
Includes two new varieties from Chile.
- Thomson, R. B.** On the pollen of *Microcachrys tetragona*. *Bot. Gaz.* 47: 26-29. *pl.* 1, 2. 29 Ja 1909.
- Thorner, J. J.** Relation of plant growth and vegetation forms to climatic conditions. *Plant World* 12: 1-7. Ja 1909.
- Trelease, W.** Darwin as a naturalist: Darwin's work on cross pollination in plants. *Am. Nat.* 43: 131-142. Mr 1909.
- Vries, H. de.** On triple hybrids. *Bot. Gaz.* 47: 1-8. 29 Ja 1909.
- Weingart, W.** *Cereus ambiguus* P. DC. *Monats. Kakteenk.* 19: 6, 9-12. 15 Ja 1909.
- Weingart, W.** *Cereus Guelichii* Speg. *Monats. Kakteenk.* 19: 17-22. 15 F 1909. [Illust.]
Native of Paraguay.
- Weingart, W.** Wasserspeicher am Stamme des *Cereus ambiguus* P. DC. *Monats. Kakteenk.* 19: 14, 15. 15 Ja 1909.
- West, G. S.** The "red snow" plant (*Sphaerella nivalis*). *Jour. Roy. Micr. Soc.* 1909: 28-30. F 1909.
- Whyte, R. B.** Dr. Fletcher as a botanist. *Ottawa Nat.* 22: 206, 207. 12 Ja 1909.
- Wilson, P.** Notes on *Rutaceae*—II. *Torreyia* 9: 32, 33. 26 F 1909.
Includes *Xanthoxylum jamaicense* sp. nov. and two new combinations.
- Winslow, C.-E. A.** A statistical criterion for species and genera among the bacteria. *Bull. Torrey Club* 36: 31-39. 29 Ja 1909.
- Winslow, E. J.** *Polystichum acrostichoides* var. *incisum* interpreted. *Fern Bull.* 15: 101. [Ja] 1909.
- Wootton, E. O., & Standley, P. C.** Some hitherto undescribed plants from New Mexico. *Bull. Torrey Club* 36: 105-112. 4 Mr 1909.
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